

ABSTRACT

The invention provides a method for the manufacture and transmissive irradiation of a sample, comprising the steps of:

- 5 A Providing a particle-optical system having an internal low-pressure chamber and suitable for the generation of an electron beam and an intersecting ion beam in said chamber;
 - B Providing a specimen within the chamber, carried by a manipulator;
 - C Irradiating the specimen with the ion beam so as to cut a sample from the
10 specimen;
 - D Relatively displacing the sample thus cut to a sample holder than can be manipulated;
 - E Attaching the sample to the sample holder;
 - F Using an electron beam to perform transmissive irradiation of the sample thus
15 attached to the sample holder,
- characterized in that step F is performed in the low-pressure chamber of the particle-optical system according to step A.